In re Patent Application of:
FLICK
Serial No. **09/934,997**
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In the Claims:

1. (Currently amended) A vehicle remote control system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising an input device and a cellular telephone transmitter for transmitting cellular telephone signals via the cellular communications infrastructure and for alternately transmitting signals relating to a command code entered from the input device and a unique identification code for the cellular telephone, the vehicle remote control system comprising:

a receiver positioned at the vehicle for receiving signals directly from the cellular telephone transmitter that is alternately used for transmitting cellular telephone signals via the cellular telephone infrastructure but without using intervening cellular communications infrastructure; and

a controller positioned at the vehicle and being switchable between a learning mode and an operating mode, said controller when in the learning mode learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone, said controller when in the operating mode controlling at least one vehicle function responsive to signals received from the cellular transmitter of the authorized cellular telephone and without using the intervening cellular telephone infrastructure.

2. (Original) A vehicle remote control system according to Claim 1, wherein said controller cooperates with said receiver to learn the unique identification code of the cellular telephone by wireless reception from the cellular telephone.

3. (Original) A vehicle remote control system according to Claim 2, wherein said receiver has a controllable sensitivity; and wherein said controller reduces the sensitivity of said receiver when in the learning mode.

4. (Original) A vehicle remote control system according to Claim 1, wherein said receiver comprises a frequency scanning receiver for scanning available transmit frequencies of the authorized cellular telephone.

5. (Original) A vehicle remote control system according to Claim 1, further comprising an electrical connector coupled to said controller and cooperating therewith to permit said controller to interface with the cellular telephone to learn the unique identification code of the cellular telephone.

6. (Original) A vehicle remote control system according to Claim 1, wherein said controller comprises a security controller switchable between armed and disarmed modes; and wherein the at least one vehicle function comprises switching between armed and disarmed modes.

7. (Original) A vehicle remote control system according to Claim 1, wherein said controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or unlocking at least one vehicle door.

8. (Original) A vehicle remote control system according to Claim 1, wherein said controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a vehicle engine.

9. (Original) A vehicle remote control system according to Claim 1, further comprising a user operable switch connected to said controller; and wherein said controller is switchable to the learning mode responsive to said user operable switch.

10. (Original) A vehicle remote control system according to Claim 1, further comprising a user operable switch connected to said controller; wherein said controller is connected to at least one vehicle device; and wherein said controller is switchable to the learning mode responsive to said user operable switch and responsive to at said at least one vehicle device.

11. (Original) A vehicle remote control system according to Claim 1, wherein said controller is selectively responsive to less than seven digit command codes from the authorized cellular telephone.

12. (Currently amended) A vehicle remote control system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising a keypad and a cellular telephone transmitter for transmitting cellular telephone signals via the cellular communications infrastructure and for alternately transmitting signals relating to a command code entered from the keypad and a unique identification code for the cellular telephone, the vehicle remote control system comprising:

a receiver positioned at the vehicle for receiving signals directly from the cellular telephone transmitter that is alternately used for transmitting cellular telephone signals via the cellular telephone infrastructure but without using intervening cellular communications infrastructure;

a controller positioned at the vehicle and being switchable between a learning mode and an operating mode, said controller when in the learning mode learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone, said controller when in the operating mode controlling at least one vehicle function responsive to signals received from the cellular transmitter of the authorized cellular telephone and without using the intervening cellular telephone infrastructure; and

an electrical connector coupled to said controller and cooperating therewith to permit said controller to interface with the cellular telephone to learn the unique identification code of the cellular telephone.

13. (Original) A vehicle remote control system according to Claim 12, wherein said receiver comprises a frequency scanning receiver for scanning available transmit frequencies of the authorized cellular telephone.

14. (Original) A vehicle remote control system according to Claim 12, wherein said controller comprises a security controller switchable between armed and disarmed modes; and wherein the at least one vehicle function comprises switching between armed and disarmed modes.

15. (Original) A vehicle remote control system according to Claim 12, wherein said controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or unlocking at least one vehicle door.

16. (Original) A vehicle remote control system according to Claim 12, wherein said controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a vehicle engine.

17. (Original) A vehicle remote control system according to Claim 12, further comprising a user operable switch connected to said controller; and wherein said controller is switchable to the learning mode responsive to said user operable switch.

18. (Currently amended) A vehicle remote control system to be operated directly via a cellular telephone

without using intervening cellular communications infrastructure, the cellular telephone comprising a keypad and a cellular telephone transmitter for transmitting cellular telephone signals via the cellular communications infrastructure and for alternately transmitting signals relating to a command code entered from the keypad and a unique identification code for the cellular telephone, the vehicle remote control system comprising:

a receiver positioned at the vehicle for receiving signals directly from the cellular telephone transmitter that is alternately used for transmitting cellular telephone signals via the cellular telephone infrastructure but without using intervening cellular communications infrastructure;

a controller positioned at the vehicle and being switchable between a learning mode and an operating mode, said controller when in the learning mode learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone, said controller when in the operating mode controlling at least one vehicle function responsive to signals received from the cellular transmitter of the authorized cellular telephone and without using the intervening cellular telephone infrastructure; and

said controller cooperating with said receiver to learn the unique identification code of the cellular telephone by wireless reception from the cellular telephone.

19. (Original) A vehicle remote control system according to Claim 18, wherein said controller comprises a security controller switchable between armed and disarmed

modes; and wherein the at least one vehicle function comprises switching between armed and disarmed modes.

20. (Original) A vehicle remote control system according to Claim 18, wherein said controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or unlocking at least one vehicle door.

21. (Original) A vehicle remote control system according to Claim 18, wherein said controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a vehicle engine.

22. (Original) A vehicle remote control system according to Claim 18, further comprising a user operable switch connected to said controller; and wherein said controller is switchable to the learning mode responsive to said user operable switch.

23. (Currently amended) A method for vehicle remote control system directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising an input device and a cellular telephone transmitter for transmitting cellular telephone signals via the cellular communications infrastructure and for alternately transmitting signals relating to a command code entered from the input device and a unique identification code for the cellular telephone, the method comprising:

receiving signals directly from the cellular telephone transmitter that is alternately used for transmitting cellular telephone signals via the cellular telephone infrastructure at the vehicle but without using intervening cellular communications infrastructure;

switching a controller positioned at the vehicle to a learning mode and learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone; and

switching the controller to an operating mode and controlling at least one vehicle function responsive to signals received from the cellular transmitter of the authorized cellular telephone and without using the intervening cellular telephone infrastructure.

24. (Original) A method according to Claim 23, wherein the controller cooperates with the receiver to learn the unique identification code of the cellular telephone by wireless reception from the cellular telephone.

25. (Original) A method according to Claim 24, further comprising reducing sensitivity of the receiver when in the learning mode.

26. (Original) A method according to Claim 23, wherein the receiver comprises a frequency scanning receiver for scanning available transmit frequencies of the authorized cellular telephone.

27. (Original) A method according to Claim 23, further comprising using an electrical connector coupled to the controller and cooperating therewith to permit the controller to interface with the cellular telephone to learn the unique identification code of the cellular telephone.

28. (Original) A method according to Claim 23, wherein the controller comprises a security controller switchable between armed and disarmed modes; and wherein the at least one vehicle function comprises switching between armed and disarmed modes.

29. (Original) A method according to Claim 23, wherein the controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or unlocking at least one vehicle door.

30. (Original) A method according to Claim 23, wherein the controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a vehicle engine.

31. (Original) A method according to Claim 23, further comprising a user operable switch connected to the controller; and wherein the controller is switchable to the learning mode responsive to the user operable switch.

32. (Original) A method according to Claim 23, wherein the controller is selectively responsive to less than

seven digit command codes from the authorized cellular telephone.

33-64. (Canceled)

65. (New) A vehicle remote control system to be operated directly via a cellular telephone without using intervening cellular communications infrastructure, the cellular telephone comprising an input device and a transmitter for transmitting signals relating to a command code entered from the input device and a unique identification code for the cellular telephone, the vehicle remote control system comprising:

a receiver positioned at the vehicle for receiving signals directly from the cellular telephone without using intervening cellular communications infrastructure; and

a controller positioned at the vehicle and being switchable between a learning mode and an operating mode, said controller when in the learning mode learning the unique identification code of a cellular telephone so that the cellular telephone is an authorized cellular telephone, said controller when in the operating mode controlling at least one vehicle function responsive to signals received from the authorized cellular telephone;

said controller cooperating with said receiver to learn the unique identification code of the cellular telephone by wireless reception from the cellular telephone;

said receiver having controllable sensitivity and said controller reducing the sensitivity of said receiver when in the learning mode.

66. (New) A vehicle remote control system according to Claim 65, wherein said receiver comprises a frequency scanning receiver for scanning available transmit frequencies of the authorized cellular telephone.

67. (New) A vehicle remote control system according to Claim 65, further comprising an electrical connector coupled to said controller and cooperating therewith to permit said controller to interface with the cellular telephone to learn the unique identification code of the cellular telephone.

68. (New) A vehicle remote control system according to Claim 65, wherein said controller comprises a security controller switchable between armed and disarmed modes; and wherein the at least one vehicle function comprises switching between armed and disarmed modes.

69. (New) A vehicle remote control system according to Claim 65, wherein said controller comprises a door lock controller; and wherein the at least one vehicle function comprises locking or unlocking at least one vehicle door.

70. (New) A vehicle remote control system according to Claim 65, wherein said controller comprises an engine starting controller; and wherein the at least one vehicle function comprises starting a vehicle engine.

71. (New) A vehicle remote control system according to Claim 65, further comprising a user operable switch connected to said controller; and wherein said controller is switchable to the learning mode responsive to said user operable switch.

72. (New) A vehicle remote control system according to Claim 65, further comprising a user operable switch connected to said controller; wherein said controller is connected to at least one vehicle device; and wherein said controller is switchable to the learning mode responsive to said user operable switch and responsive to at said at least one vehicle device.